

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.

SERIAL NO.

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT(S) INFORMATION DISCLOSURE
STATEMENT**

(Use several sheets if necessary)

14918-725 CON4

09/103,262

APPLICANT

Phillip W. Berman et al.

FILING DATE

June 23, 1998

GROUP ART UNIT

1643

REFERENCE DESIGNATION**U.S. PATENT DOCUMENTS**

EXAM'R INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	Subclass	Filing Date If Appropriate
SF	A1*	4,725,669	2/88	Essex et al.	530	322	
SF	A2*	5,166,050	11/92	Shriver et al.	435	5	
	A3						
	A4						
	A5						
	A6						
	A7						
	A8						
	A9						
	A10						

FOREIGN PATENT DOCUMENTS

EXAM'R INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLATN
							yes no
SF	B1*	33320/89	11/89	Australia			
SF	B2*	65235/90	4/91	Australia			
SF	B3*	187041	9/86	Europe			
SF	B4*	0 339 504 A2	11/88	Europe			

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

SF	C1*	Allan et al., "Major glycoprotein antigens that induce antibodies in AIDS patients are encoded by HTLV-III" <i>Science</i> 228 (4703):1091-1094 (May 1985).
SF	C2*	Anderson et al., "Effect of Dose and Immunization Schedule on Immune Response of Baboons to Recombinant Glycoprotein 120 of HIV-1," <i>Jour. of Infectious Diseases</i> , 160(6):960-969 (1989).
SF	C3*	Arthur et al., "Challenge of Chimpanzees (<i>Pan troglodytes</i>) Immunized with Human Immunodeficiency Virus Envelope Glycoprotein gp120," <i>Jour. of Virology</i> 63(12):5046-5053 (1989).

EXAMINER

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FOREIGN PATENT DOCUMENTS

EXAM'R INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLATN	
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SF	B5*	0 335 635 A1	10/89	Europe				
SF	B6*	WO 89/12095	12/89	PCT				
SF	B7*	WO 90/02196	3/90	PCT				
SF	B8*	WO 91/13906	9/91	PCT				

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

GF	C4*	Barin et al., "Virus Envelope Protein of HTLV-III Represents Major Target Antigen for Antibodies in AIDS Patients," <i>Science</i> 228:1094-1096 (1985).
GF	C5*	Barrett et al., "Large-Scale Production and Purification of a Vaccinia Recombinant-Derived HIV-1 gp160 and Analysis of Its Immunogenicity," <i>AIDS Research and Human Retroviruses</i> 5(2):159-171 (1989).
GF	C6*	Berman et al., "Expression and Immunogenicity of the Extracellular Domain of the Human Immunodeficiency Virus Type 1 Envelope Glycoprotein, gp160" <i>Jour. of Virology</i> 63(8):3489-3498 (1989).

EXAMINER *[Signature]*DATE CONSIDERED *5/14/94*

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EXAM'R INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLATN	
							yes	no
gk	B9*	WO 93/20104	10/93	PCT				
	B10	120284/1989	1989	Japan				
	B11							
	B12							

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

gt	C7*	Berman et al., "Human immunodeficiency virus type 1 challenge of chimpanzees immunized with recombinant envelope glycoprotein gp120" <i>Proc. Natl. Acad. Sci. USA</i> 85:5200-5204 (1988).
gr	C8*	Berman et al., "Protection from Genital Herpes Simplex Virus Type 2 Infection by Vaccination with Cloned Type 1 Glycoprotein D," <i>Science</i> 227:1490-1492 (1985).
gp	C9*	Berman et al., "Protection of Chimpanzees From Infection by HIV-1 After Vaccination With Recombinant Glycoprotein gp120 but not gp160," <i>Nature</i> 345:622-625 (1990).

EXAMINER *Shawn T. B.*DATE CONSIDERED *5/14/94*

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							yes	no
	B13							
	B14							
	B15							
	B16							

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

C10*	Gelltech "CHO-cell rgp120" Certificate of Analysis pp.1-2 (Jan., 1990).
CF C11*	Chakrabarti et al., "Expression of the HTLV-III envelope Gene by a Recombinant Vaccinia Virus," <i>Nature</i> 320:535-540 (1986).
CF C12*	Clements et al., "The V3 Loops of the HIV-1 and HIV-2 Surface Glycoproteins Contain Proteolytic Cleavage Sites; A Possible Function in Viral Fusion" <i>AIDS Research and Human Retroviruses</i> 7:3-16 (1991).

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EXAM'R INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLATN
							yes no
	B17						
	B18						
	B19						
	B20						

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

<i>sf</i>	C13*	Desrosiers et al., "Vaccine protection against simian immunodeficiency virus infection," <i>Proc. Natl. Acad. Sci. USA</i> 86:6353-6357 (1989).
<i>sf</i>	C14*	Fahey et al., "Status of immune-based therapies in HIV infection and AIDS," <i>Clin. exp. Immunol.</i> 88:1-5 (1992).
<i>sf</i>	C15*	Fauci et al., "Development and Evaluation of a Vaccine for Human Immunodeficiency Virus (HIV) Infection," <i>Annals of Internal Med.</i> 110(5):373-385 (1989).

EXAMINER *Shawn Toly*DATE CONSIDERED *5/14/94*

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EXAM'R INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLATN
							yes no
	B21						
	B22						
	B23						
	B24						

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

ST	C16*	Fox, J.L., "No Winners Against AIDS," <i>Bio/Technology</i> 12:128 (Feb. 1994).
SP	C17*	Homsy et al., "The Fc and Not CD4 Receptor Mediates Antibody Enhancement of HIV Infection in Human Cells," <i>Science</i> 244:1357-1360 (1989).
gf	C18*	Hu et al., "Effect of Immunization With a Vaccinia-HIV env Recombinant on HIV Infection of Chimpanzees," <i>Nature</i> 328:721-723 (1987).

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EXAM'R INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLATN	
							yes	no
	B25							
	B26							
	B27							
	B28							

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

gf	C19*	Hu et al., "Expression of AIDS virus envelope gene in recombinant vaccinia viruses," <i>Nature</i> 320:537-540 (1986).
gf	C20*	Jahaverian et al., "Principal neutralizing domain of the human immunodeficiency virus type 1 envelope protein," <i>Proc. Natl. Acad. Sci. USA</i> 86:6768-6772 (1989).
gf	C21*	Kitchen et al., "Aetiology of AIDS - antibodies to human T-cell leukaemia virus (type III) in haemophiliacs," <i>Nature</i> 312:367-369 (1984).

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						yes	no
B29							
B30							
B31							
B32							

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

SF	C22*	Krust et al., "Characterization of a monoclonal antibody specific for the HIV-1 precursor glycoprotein," AIDS 2:17-24 (1988).
SF	C23*	Lasky, Laurence A., "Current Status of the Development of an AIDS Vaccine," Crit. Revs. in Immunology 9(3):153-172 (1989).
SF	C24*	Lasky et al., "Delineation of a Region of the Human Immunodeficiency Virus Type 1 gp120 Glycoprotein Critical for Interaction with the CD4 Receptor," Cell 50:975-985 (1987).

EXAMINER *Stephen J. Tolosa*DATE CONSIDERED *5/14/99*

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		APPLICANT Phillip W. Berman et al.	
		FILING DATE June 23, 1998	GROUP ART UNIT 1643



REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS					
EXAM'R INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	Subclass	Filing Date If Appropriate
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FOREIGN PATENT DOCUMENTS							
EXAM'R INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLATN
							yes no
	B33						
	B34						
	B35						
	B36						

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)		
<i>sf</i>	C25*	Lasky et al., "Neutralization of the AIDS Retrovirus by Antibodies to a Recombinant Envelope Glycoprotein," <i>Science</i> 233:209-212 (1986).
<i>sf</i>	C26*	Letvin et al., "AIDS-like Disease in Macaque Monkeys Induced By Simian Immunodeficiency Virus: A Vaccine Trial," <i>Vaccines</i> 87:209-213 (1987).
	C27	Liou, Ruey-Shyan et.al., "A Chimeric Mouse-Human Antibody That Retains Specificity For HIV gp120 And Mediates The Lysis of HIV-Infected Cells," <i>Journal of Immunology</i> 143:3967-3975 (Dec. 1989).

EXAMINER	<i>Simon J. B.</i>	DATE CONSIDERED	<i>5/14/94</i>
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLATN	
						yes	no
B37							
B38							
B39							
B40							

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

SF	C28*	Looney et al., "Type-Restricted Neutralization of Molecular Clones of Human Immunodeficiency Virus," <i>Science</i> 241:357-359 (1988).
SF	C29*	Matsushita et al., "Characterization of a Human Immunodeficiency Virus Neutralizing Monoclonal Antibody and Mapping of the Neutralizing Epitope," <i>Jour. of Virology</i> 62(6):2107-2114 (1988).
GT	C30*	Modrow et al., "Computer-Assisted Analysis of Envelope Protein Sequences of Seven Human Immunodeficiency Virus Isolates: Prediction of Antigenic Epitopes in Conserved and Variable Regions," <i>Jour. of Virology</i> 61(2):570-578 (1987).

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EXAMR INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLATN
							yes no
	B41						
	B42						
	B43						
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OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

<i>gf</i>	C31*	Murphy-Corb et al., "A Formalin-Inactivated Whole SIV Vaccine Confers Protection in Macaques," <i>Science</i> 2:1293-1297 (1989).
<i>gf</i>	C32*	Newmark, Peter, "Receding Hopes of AIDS vaccines," <i>Nature</i> 333:699 (1988).
<i>gf</i>	C33*	Palker et al., "Type-specific neutralization of the human immunodeficiency virus with antibodies to env-encoded synthetic peptides," <i>Proc. Natl. Acad. Sci. USA</i> 85:1932-1936 (1988).

EXAMINER *James J. Foley*DATE CONSIDERED *5/14/94*

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							yes no
	B45						
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OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

<i>sf</i>	C34*	Prince et al., "Failure of a Human Immunodeficiency Virus (HIV) Immune Globulin to Protect Chimpanzees Against Experimental Challenge With HIV," <i>Proc. Natl. Acad. Sci. USA</i> 85:6944-6948 (1988).
<i>sf</i>	C35*	Robey et al., "Prospect for prevention of human immunodeficiency virus infection: Purified 120-kDa envelope glycoprotein induces neutralizing antibody," <i>Proc. Natl. Acad. Sci.</i> 83:7023-7027 (1986).
<i>sf</i>	C36*	Robey, W.G. et al., "Characterization of envelope and core structural gene products of HTLV-III with sera from AIDS patients," <i>Science</i> 228 (4699):593-595 (May 3, 1985).

EXAMINER *Stephen Cole*DATE CONSIDERED *5/14/94*

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							yes no
	B49						
	B50						
	B51						
	B52						

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

<i>SP</i>	C37*	Robinson, Jr. et al., "Antibody-Dependent Enhancement of Human Immunodeficiency Virus Type 1 Infection," <i>The Lancet</i> 790-794 (1988).
<i>SP</i>	C38*	Robinson, Jr. et al., "Human Monoclonal Antibodies to the Human Immunodeficiency Virus Type 1 (HIV-1) Transmembrane Glycoprotein gp41 Enhance HIV-1 Infection <i>in vitro</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 87:3185-3189 (1990).
<i>SP</i>	C39*	Rusche et al., "Antibodies That Inhibit Fusion of Human Immunodeficiency Virus-infected Cells Bind a 24-amino Acid Sequence of the Viral Envelope, gp120," <i>Proc. Natl. Acad. Sci. USA</i> 85:3198-3202 (1988).

EXAMINER *Stuart Tolz*DATE CONSIDERED *5/24/99*

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JUN 01 2000
PATENT & TRADEMARK OFFICE
U.S. DEPARTMENT OF COMMERCE

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							yes no
	B53						
	B54						
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OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

<i>sf</i>	C40*	Salk et al., "Control of Influenza and Poliomyelitis with Killed Virus Vaccines," <i>Science</i> 195:834-847 (1977).
<i>gf</i>	C41*	Salk, Jonas, "Prospects for the Control of AIDS by Immunizing Seropositive Individuals," <i>Nature</i> 327:473-476 (1987).
<i>gf</i>	C42*	Stephens et al., "A chink in HIV's armour?" <i>Nature</i> 343:219 (1990).

EXAMINER *Stephens*DATE CONSIDERED *5/14/94*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant(s).

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.

SERIAL NO.

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT(S) INFORMATION DISCLOSURE
STATEMENT**

(Use several sheets if necessary)

14918-725 CON4

09/103,262

APPLICANT

Phillip W. Berman et al.

FILING DATE

June 23, 1998

GROUP ART UNIT

1643

REFERENCE DESIGNATION**U.S. PATENT DOCUMENTS**

EXAM'R INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	Subclass	Filing Date If Appropriate
	A141						
	A142						
	A143						
	A144						
	A145						
	A146						
	A147						
	A148						
	A149						
	A150						

FOREIGN PATENT DOCUMENTS

EXAM'R INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLATN
							yes no
	B57						
	B58						
	B59						
	B60						

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

C43	Thiriart, Clotilde et al., "Several Antigenic Determinants Exposed on the gp120 Moiety of HIV-1 gp160 Are Hidden on the Mature gp120," <i>Journal of Immunology</i> 143:1832-1836 (Sept., 1989)
C44*	Vandenbark et al., "Immunization with a Synthetic T-cell Receptor V-region Peptide Protects Against Experimental Autoimmune Encephalomyelitis," <i>Nature</i> 341:541-544 (1989).
C45*	Van Eedenburg et al., "Cell-Mediated Immune Proliferative Responses to HIV-1 of Chimpanzees Vaccinated With Different Vaccinia Recombinant Viruses," <i>Aids Res. and Human Retroviruses</i> 5(1):41-50 (1989).

EXAMINER *[Signature]*DATE CONSIDERED *6/14/99*

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(Information Disclosure Statement — Section 9 PTO-1449 (Modified) [6-1])

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Docket No.: 21514-704-00 US

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	A151						
	A152						
	A153						
	A154						
	A155						
	A156						
	A157						
	A158						
	A159						
	A160						

FOREIGN PATENT DOCUMENTS

EXAM'R INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLATN
							yes no
	B61						
	B62						
	B63						
	B64						

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

<i>sf</i>	C46*	Veronese et al., "Characterization of gp41 As the Transmembrane Protein Coded by the HTLV-III/LAV-Envelope Gene" <i>Science</i> 229:1402-1405 (1985).
	C47	Yoshida, Nobuko et al., "Metacyclic Neutralizing Effect of Monoclonal Antibody 10D8 Directed to the 35-and 50-Kilodalton Surface Glycoconjugates of <i>Trypanosoma cruzi</i> ," <i>Infection and Immunity</i> 57:6:1663-1667 (June 1989).
<i>sf</i>	C48*	Zagury et al., "Immunization Against AIDS in Humans," <i>Nature</i> 326:249-250 (1987).

EXAMINER

DATE CONSIDERED

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	A151						
	A152						
	A153						
	A154						
	A155						
	A156						
	A157						
	A158						
	A159						
	A160						

FOREIGN PATENT DOCUMENTS

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							yes no
	B61						
	B62						
	B63						
	B64						

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

<i>sf</i>	C49*	Zagury et al., "A group specific anamnestic Immune Reaction Against HIV-1 Induced by a Candidate Vaccine Against AIDS," <i>Nature</i> 332:728-731 (1988).
<i>sf</i>	C50*	Zarling et al., "T-cell responses to human AIDS virus in Macaques Immunized With Recombinant Vaccinia Viruses," <i>Nature</i> 323:344-346 (1986).

EXAMINER

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